## **SIEMENS**

Data sheet 3RT2015-2HB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25\* Us, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
<ul> <li>without load current share typical</li> </ul>	2.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	690 V

at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	18 A
value	
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	18 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.7 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.7 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	2.6 A
• at 400 V rated value • at 690 V rated value	2.6 A 1.8 A
• at 400 V rated value • at 690 V rated value  operational current	
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1	1.8 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1 — at 24 V rated value	1.8 A 15 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value	1.8 A 15 A 15 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value	1.8 A 15 A 15 A 1.5 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A
• at 400 V rated value • at 690 V rated value  • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 42 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  18 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A  15 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 440 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A  16 A  17 A  18 A  18 A  19 A  10 A  10 A  11 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  • at 60 V rated value  — at 24 V rated value  — at 25 V rated value  — at 440 V rated value  — at 600 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A  15 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 440 V rated value  — at 440 V rated value  — at 440 V rated value  — at 400 V rated value  — at 600 V rated value	1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A  15 A  0.6 A  0.7 A  1.8 A
• at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 440 V rated value  — at 60 V rated value  — at 60 V rated value  — at 60 V rated value  — at 600 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A  15 A  1.5 A  1.5 A  1.5 A
AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  • at 60 V rated value — at 60 V rated value — at 60 V rated value — at 60 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.5 A  1.5 A  1.5 A  1.5 A
at 400 V rated value at 690 V rated value  operational current  at 1 current path at DC-1  at 24 V rated value  at 100 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 24 V rated value  at 24 V rated value  at 24 V rated value  at 600 V rated value  at 24 V rated value  at 600 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 220 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 25 V rated value  — at 26 V rated value  — at 27 V rated value  — at 28 V rated value  — at 29 V rated value  — at 20 V rated value  — at 20 V rated value  — at 20 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 110 V rated value  — at 22 V rated value  — at 440 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A  15 A  15 A  15 A  15 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 440 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 22 V rated value — at 22 V rated value — at 22 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value — at 600 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  8.4 A  1.2 A  0.6 A  0.5 A  15 A  15 A  15 A  16 A  17 A  18 A  18 A  19 A  10 A  1
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value — at 60 V rated value — at 440 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 440 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A  15 A
• at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value — at 600 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value	1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  8.4 A  1.2 A  0.6 A  0.5 A  15 A  15 A  15 A  16 A  17 A  18 A  18 A  19 A  10 A  1

— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
• up to 500 V for current peak value n=20 rated value	3.3 kVA
• up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.2 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	2.9 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	67 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	52 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.7
• full-scale value	1.25
closing power of magnet coil at DC	2.8 W
holding power of magnet coil at DC	2.8 W
closing delay	
• at DC	25 130 ms
- at DO	CV 19V 110

opening delay	
• at DC	7 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>— at 110/120 V rated value</li> </ul>	0.25 hp
— at 230 V rated value	0.75 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm

- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - downwards - upwards - downwards - at the side - downwards - at the side - for auxiliary and control circuit • for auxiliary contacts • solid - solid or stranded • finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded	
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - upwards  - forwards  - upwards  - forwards  - downwards  - downwards  - downwards  - downwards  - downwards  - downwards  - for main current circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  • for auxiliary ontacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • finely stranded of the stranded  - finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end process	
• for grounded parts	
- forwards	
- upwards - at the side - downwards - for live parts - forwards - upwards - downwards - upwards - downwards - downwards - at the side - form at the side - form acting to the side - for auxiliary and control circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - type of connectable conductor cross-sections for main contacts - solid - solid - stranded - finely stranded with our core end processing - finely stranded with our core end processing - finely stranded with core end processing - finely stranded without	
- at the side	
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • for auxil	
• for live parts  — forwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing	
- forwards	
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  • solid or stranded • for auxiliary contacts	
- downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - solid or stranded	
Type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • stranded • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded with out core end processing  • stranded  • finely stranded without core end processing  • stranded  • finely stranded without core end processing  • stranded  • finely stranded with core end processing  • stranded  • finely stranded without core end processing  • stranded  • finely stranded without core end processing  • stranded  • finely stranded without core end processing  • stranded  • finely stranded without core end processing  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded without core end processing  • stranded  • stranded  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • solid  • stranded  • finely stranded with core end processing  • finely stranded without core end processing	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded without core end processing  • stranded  • stranded  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • finely stranded without core end processing	
• for main current circuit     • for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil     type of connectable conductor cross-sections for main contacts     • solid     • solid or stranded     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • solid     • stranded     • solid     • stranded     • solid     • stranded     • finely stranded with core end processing     • solid     • stranded     • stranded     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded without core end processing	
• for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil  type of connectable conductor cross-sections for main contacts     • solid     • solid	
at contactor for auxiliary contacts of magnet coil  type of connectable conductor cross-sections for main contacts solid solid solid or stranded finely stranded with core end processing solid stranded without core end processing solid stranded solid s	
Spring-type terminals  type of connectable conductor cross-sections for main contacts     solid	
type of connectable conductor cross-sections for main contacts  • solid  • solid  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • solid  • stranded  • stranded  • stranded  • finely stranded with core end processing  • solid  • stranded  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  • solid or stranded  • for auxiliary contacts	
<ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (0,5 2.5 mm²)</li> </ul>	
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>x (0.5 2.5 mm²)</li> </ul> connectable conductor cross-section for main contacts <ul> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> </ul> type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> </ul>	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> </ul>	
<ul> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0.5 4 mm²)</li> <li>2x (0.5 2.5 mm²)</li> </ul>	
connectable conductor cross-section for main contacts  • solid  • stranded  • stranded  • finely stranded with core end processing  • finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  0.5 2.5 mm²  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  2x (0,5 4 mm²)  - finely stranded with core end processing  2x (0,5 2.5 mm²)	
<ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (0,5 2.5 mm²)</li> </ul>	
<ul> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> </ul>	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for judical processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> </ul>	
<ul> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>2.5 mm²</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> </ul>	
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  2x (0,5 4 mm²)  - finely stranded with core end processing  2x (0,5 2.5 mm²)	
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> </ul>	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (0.5 2.5 mm²)</li> </ul>	
• finely stranded without core end processing  type of connectable conductor cross-sections      • for auxiliary contacts     — solid or stranded     — finely stranded with core end processing  2x (0,5 4 mm²)  2x (0,5 2.5 mm²)	
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  2x (0,5 4 mm²)  2x (0.5 2.5 mm²)	
<ul> <li>◆ for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>2x (0.5 2.5 mm²)</li> </ul>	
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>2x (0,5 4 mm²)</li> <li>2x (0.5 2.5 mm²)</li> </ul>	
— finely stranded with core end processing 2x (0.5 2.5 mm²)	
• for AWG cables for auxiliary contacts 2x (20 12)	
AWG number as coded connectable conductor cross section	
• for main contacts 20 12	
• for auxiliary contacts 20 12	
Safety related data	
product function	
• mirror contact according to IEC 60947-4-1	
B10 value with high demand rate according to SN 31920 1 000 000	
proportion of dangerous failures	
• with low demand rate according to SN 31920 40 %	
• with high demand rate according to SN 31920 73 %	
failure rate [FIT] with low demand rate according to SN 31920 100 FIT	
T1 value for proof test interval or service life according to IEC 20 a	
protection class IP on the front according to IEC 60529 IP20	
protection class IP on the front according to IEC 60529 IP20  touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	
suitability for use	
• safety-related switching OFF  Yes  Yes	
Certificates/ approvals	
General Product Approval	





Confirmation



<u>KC</u>



Functional
Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 

Environment



Confirmation



Vibration and Shock

**Transport Information** 

Environmental Confirmations

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2HB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2HB41

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2HB41

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

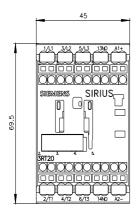
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2HB41&lang=en

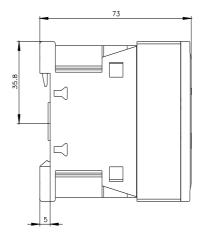
Characteristic: Tripping characteristics, I²t, Let-through current

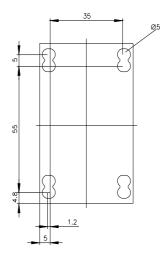
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2HB41/char

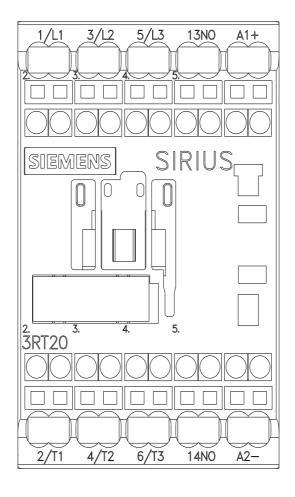
Further characteristics (e.g. electrical endurance, switching frequency)

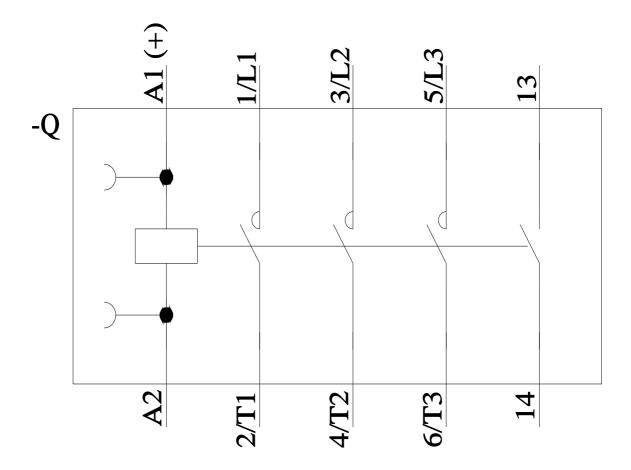
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2HB41&objecttype=14&gridview=view1











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